

SEQUENCE LISTING

GENERAL INFORMATION:

- APPLICANT: Saiko HOSOKAWA (i) Toshiaki TAGAWA Yoko HIFAKAWA Norihika ITC Habuhiro NAGAIKE
- (ii) TITLE OF INVENTION: Human Monoclonal Antibody Specifically Binding to Surface Antigen of Cancer Cell Membrane

(iii) NUMBER OF SEQUENCES: 42

- (iv) CORFESEONDENCE ADDRESS:
 - (A) ADDRESSEE: Wenderoth, Lind & Ponack
 - STREET: 2033 K Street, N.W., #800
 - GITY: Washington STATE: D.C. (C)
 - (D)
 - (E) CCUNTRY: U.S.A.
 - SIE: .0006 (F)
- COMPUTER READABLE FORM: (∇)
 - (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: MS-DOS
 - (D) SOFTWARE: WordFerfect 5.1
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/467,903
 - (B) FILING DATE: December 21, 1999
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/450,363
 - FILING DATE: May 25, 1995
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/360,125
 - (E) FILING DATE: December 20, 1994
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 07/305,534
 - (B) FILING DATE: June 29, 1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: JP158859/1991
 - (E) FILING DATE: Fine 28, 1991
- (vii) PRIOF APPLICATION DATA:
 - (A) APPLICATION NUMBER: JP158860/1991
 - (B) FILING DATE: June 28, 1991
- (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: JP158861/1991
- (B) FILING DATE: June 28, 1991

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Warren M.Cheek Jr.
- (B) PEGISTPATION NUMBER: 33,367
- (C) PEFEPENCE/DOCKET NUMBER:

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: 202-721-8200
- (B) TELEFAM 203-781-8250
- (C) TELEX:

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 hase pairs
 - (B) TYPE: nucleic acid
 - (C) STPANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cFNA
- (iii) HYPOTHETICAL:
- (iv) ANTI-SENSE:
- (vi) OFIGINAL ADMECE: human IgG antibody
 - (A) DEGAMEM:
 - (B) STPAIN:
 - (C) INDIVIOUAL ISOLATE:
 - (D) DÉVELOFMENTAL STAGE:
 - (E) HAPLOTYFE:
 - (F) TISSUE TYPE:
 - (G) CELL TYPE:
 - (H) CELL LINE:
 - (I) OFGAMELLE:

(vii) IMMEDIATE SOURCE:

- (A) LIBEARY:
- (B) CLONE:

(viii) POSITION IN GENOME:

- (A) THROMOTOME/SEGMENT:
- (B) MAP FOSITION:
- (C) UNITS:

(ix) FEATURE:

- (A) NAME/KEY:
- (B) LOCATION:
- (C) IDENTIFICATION METHOD:
- (D) OTHER INFORMATION:
- (x) PUBLICATION INFORMATION:
 - (A) AUTHORS:
 - (B) TITLE:
 - (C) JOURNAL:
 - (D) WOLUME:
 - (E) 13SUE:
 - (F) PAGES:
 - (G) DATE:
 - (H) DOCUMENT NUMBER:
 - (I) FILING DATE:
 - (J) PUBLICATION DATE:
 - (K) RELEYANT RESIDUES:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

37

SEQUENCE CHARACTERISTICS: (i+ (A) LENGTH: 21 base pairs (B) TYPE: nutleic acid STRANDEINESS: double (C) (D) ToPoloGi: linear MOLECULE TYPE: cDNA (ii) (iii) HYPOTHETICAL: (iv) ANTI-SENSE: (vi) ORIGINAL SOURCE: human IgG antibody (A) ORGANISM: (B) STEAIN: (C) INDIVIDUAL ISOLATE: (D) DEVELOPMENTAL STAGE: (E) HAPLOTYFE: (F) TISSUE TYPE: (G) CELL TYFE: (H) CELL IINE: (I) CREADELLE: (vii) IMMEDIATE SOURCE: (A) LIBFAFY: (B) CLONE: (viii) POSITION IN GENOME: (A) CHREMOSCME/SEGMENT: (B) MAP POSITION: (C) UNITS: FEATURE: (ix)(A) NAME/REY: LOCATION: (B)(C) IDENTIFICATION METHOD: (D) OTHER INFORMATION: PUBLICATION INFORMATION: (X)(A) AUTHORS: (E) TITLE: (C) JOURNAL: (D) VOLUME: (E) ISSUE: (F) EAGES: (G) DATE: (H) DOCUMENT NUMBER: (I) FIGING DATE: (J) PUBLICATION DATE: (H) RELEVANT RESIDUES: SEQUENCE DESCRIPTION: SEÇ ID NO:2: TGG TGC AGC CAG AGT TGG TTT 21

(2) INFORMATION FOR SEQ ID NO:3:

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL:

(i)

SEQUENCE CHARACTERISTICS:

(A) LENGTH: 357 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

G GCC CTT GGT GGA GGC TGA AGA GAC GGT GAC CAT TCT

INFORMATION FOR SEQ ID NO:2:

```
(iv)
          ANTI-SENSE:
     (vi)
           ORIGINAL SOURCE:
               OLGANISM:
           (A)
                STFAIN:
           ( b)
           (C)
                INDUVIDUAL ISOLATE:
               DEVELOPMENTAL STAGE:
           (D)
           (E)
               HAFLOTYFE:
           (F)
                TIPSUE TYPE:
                CELL TITE: Hyperidoma producing human
                antibody GAH
           (H)
                CELL LINE:
           (I)
               ORGANELLE:
     (vii) IMMEDIATE SOURCE:
               LIBRAEN:
           (A)
           (B) CLONE:
     (viii) POSITION IN GENOME:
           (A) CHROMOS ME/SEGMENT:
           (B)
                MAR FORITION:
           (-1)
                UNITE:
     (ix)
           FEATURE:
               MAKE/FEY:
           (A)
           (E)
                LOCATION:
           (\mathbb{C})
               IDENTIFICATION METHOD:
           (D)
               OTHER INFORMATION:
          PUBLICATION INFORMATION:
    (x)
           (A) AUTHORS:
               TITLE:
           (B)
           (C)
               JOURNAL:
           (D)
               VOLUME:
           (\Xi)
               ISSUE:
           (F)
               EAGES:
           (\mathbb{G})
               EATE:
           (H)
               DOMUMENT NUMBER:
           (1)
               FILING LATE:
               FUELICATION DATE:
           (T_{i})
                RELEVANT RESIDUES:
           (K)
           SEQUENCE DESCRIPTION: SEQ ID NO:3:
CAG GTG CAG CTG CAG GAG TOG GRO COA GGA CTG GTG AAG COT TOA
CAG ACC CTG TOC CTG ACC TGG ACT GTC TOT GGT GGC TOC ATC AGC
                                                                     90
AGT TGT GGT TTC TAC TGG AAC TGG ATC CGC CAG CAC CCA GGG AAG
                                                                    135
GGC CTG GAG TGG ATT GGG TAC ATC TAT TAC AGT GGG AGC ACC TAC
                                                                    180
TAC AAC CCG TCC CTC AAG AGT CUA GTT ACC ATA TCG CTA GAC ACG
                                                                    225
TOT AAG AGO CAG TTO TOO CTG AWG CTG AGO TOT CTG ACT GOO GOG
                                                                    270
GAC ACG GCC GTG TAT TAN TGT GMG AGG TOT ACC CGA CTA CGG GGG
                                                                    315
GCT GAC TAC TGG GGC CAG GGA ACA ATG GTC ACC GTC TCT TCA
                                                                    357
    INFORMATION FOR SEQ ID No:4:
    (i)
           SEQUENCE CHARACTERISTICS:
           (A) LENGTH: 342 base pairs
           (B)
               TYPE: nucleic acid
```

(vi) ORIGINAL SOURCE:

(iii) HYPOTHETICAL: (iv) ANTI-SENSE:

(A) ORGANISM:

(ii) MOLECULE TYPE: cDNA

STRANDEDNESS: double

(D) TOPOLOGY: linear

```
(B)
                STPAIN:
           (C)
                INDIVIDUAL ISOLATE:
                DEVELOPMENTAL STAGE:
           (D)
           (E)
                HAPLOTYPE:
           (F)
                TISSUE TYPE:
               CELL TYPE: Hybridoma producing human
           (G)
                antibody GAH
           (H)
                CELL LINE:
               OFGALELLE:
           (I)
    (vii) IMMEDIATE SOUFCE:
           (A)
               LIBPARY:
           (B) GLONE:
    (viii) POSITION IN GENOME:
           (A) CHEOMOSOME/SEGMENT:
           (B) MAP FOSITION:
           (C) UNITS:
          FEATUFE:
    (ix)
           (A) NAME/KET:
           (B)
               LOCATION:
           (\bigcirc)
               IDENTIFICATION METHOD:
           (D) OTHER INFORMATION:
          PUBLICATION INFORMATION:
    (x)
           (A) AUTHORS:
               TITLE:
           (B)
           (C)
               JOURNAL:
           (I^{\dagger})
               VOLUME:
           (E)
               ISSUE:
           (F)
               FAGES:
           (G)
               DATE:
               DOCUMENT NUMBER:
           (H)
           (I)
               FILING DATE:
           ( L, )
               FUBLICATION DATE:
               PELEVANT RESIDUES:
           (E)
         SEQUENCE DESCRIPTION: SEQ ID NO:4:
    (xi)
GAC ATC GTG ATG ACC CAG TOT COA GAC TOC CTG GCT GTG TOT CTG
GGC GAG AGG GOC AGG ATG AAG TGC AAG TGC AGC CAG AGT GTT TTA
TAC AAC TOO AAC AAT AAG AAA TAC TTA GOT TGG TAC CAG CAG AAA
                                                                    135
CCA GGA CAG CCT CCT ARG CTG CTC ATT TAC TGG GCA TCT ACC CGG
                                                                    180
GAA TCC GGG GTC CCT GAC CGA TTC AGT GGC AGC GGG TCT GGG ACA
GAT TTC ACT CTC ACC AFC AGC AGC CTG CAG GCT GAA GAT GTG GCA
                                                                    225
                                                                    270
GTT TAT TAC TGT CAG CAG TAT TAT AGT ACT CCG TGG ACG TTC GGC
                                                                    315
CAA GGG ACC AAG GTG GAA ATC AAA CGA
                                                                    342
     INFORMATION FOR SEC ID NO:5:
(2)
           SEQUENCE CHARACTERISTICS:
    (i)
           (A) LENGTH: 119 amino acids
           (B) TYPE: amino acid
           (C) STRANDEDNESS: single
```

INDIVIDUAL ISOLATE: (C)

(D) TOPOLOGY: linear

MOLECULE TYPE: protein

(ii)

(iii) HYPOTHETICAL: (iv) ANTI-SENSE: (vi) ORIGINAL SOURCE: (A) OEGANISM: STFAIN:

(B)

```
(E)
               HAPLOTTPE:
          (F)
               TISSUE TYPE:
               CELL TYPE: Hybridoma producing human
               antibody GAH
          (H)
               CELL LINE:
          (I)
              ORGANELLE:
    (vii) IMMEDIATE SOURCE:
          (A) LIBEARY:
          (B)
              CLOME:
    (viii) POSITION IN GENOME:
              CHROMOSOME/SEGMENT:
          (B) MAP POSITION:
          (C) UNITS:
          FEATURE:
    (ix)
          (A) NAME/FET:
              LOCATION:
          (B)
          (C)
              IDENTIFICATION METHOD:
          (D) CTHER INFORMATION:
        PUBLICATION INFORMATION:
          (A) AUTHORS:
          (B)
               TITLE:
          (\odot)
              JIN'RMAL:
              VELUME:
          (D)
          (E)
              ISSUE:
          (F)
              PAGES:
          (G)
              DATE:
          (H)
              DOCUMENT NUMBER:
          (I)
              FILING DATE:
          (\mathcal{J})
              FUBLICATION DATE:
          (K) RELEVANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser
                                     10
Gln Thr Leu Ser Leu Thr Cys Thr Mal Ser Gly Gly Ser Ile Ser
                                                          3.0
Ser Cys Gly Phe Tir Tip Ash Trp He Arg Glh His Pro Gly Lys
Gly Leu Glu Trp Tie Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr
Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Leu Asp Thr
                                      70
Ser Lys Ser Gln Phe Ser Leu Lys Leu Ser Ser Leu Thr Ala Ala
                 80
                                      35
Asp Thr Ala Val Tyr Ty: Cys Ala Arg Ser Thr Arg Leu Arg Gly
                                    100
Ala Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
                111
(2) INFORMATION FOR MEQ ID NO:6:
          SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 114 amino acids
          (E) TYPE: amino acid
          (C) STEANDEDNESS: single
          (I) TOPOLOGY: linear
```

MCLECULE TYPE: protein

(ii)

(iii) HYPOTHETICAL:

(D)

DEVELOPMENTAL STAGE:

(iv) ANTI-SENSE:

```
(vi)
         ORIGINAL SOURCE:
          (A) ORGANISM:
              STFAIN:
          (B)
          (C)
              INDIVIDUAL ISOLATE:
              DEVELOPMENTAL STAGE:
          (D)
          (E)
              HAPLOTYPE:
          (F)
              TISSUE TYPE:
              CELL TYPE: Hybridoma producing human
              antibody GAH
          (H)
              CELL LINE:
          (I) OEGAMELLE:
    (vii) IMMEDIATE SOURCE:
              LIERARY:
          (A)
          (B) CLONE:
    (viii) POSITION IN GENOME:
          (A) CHRCMOSOME/SEGMENT:
              MAR FOSITION:
          (B)
          (C)
              UNITS:
    (ix)
         FEATURE:
          (A)
             NAME/FET:
          (E)
              LOCATION:
          (\mathbb{C})
              IDENTIFICATION METHOD:
             OTHER INFORMATION:
          ( D)
        PUBLICATION INFORMATION:
    (x)
          (A) ANTHORS:
              TITLE:
          (E)
          (\Box)
              JOURNAL:
          ( D)
              VOLUME:
          (E)
              ISSUE:
          (F)
              PAGES:
          (G)
              DATE:
              DOCUMENT NUMBER:
          (H)
              FILING DATE:
          (I)
          (J) FUBLICATION DATE:
          (K) RELEVANT RESIDUES:
        SEQUENCE DESCRIPTION: SEQ ID NO:6:
 Asp Ile Val Met Thr 31m Ser Pro Asp Ser Leu Ala Val Ser Leu
                                       10
 Gly Glu Arg Ala Thr fle Ash Cys Lys Ser Ser Gln Ser Val Leu
                                       25
                   10
 Tyr Asn Ser Asn Asr. Lys Lys Tyr Leu Ala Trp Tyr Gln Gln Lys
                                       40
 Pro Gly Glr. Pro Erc Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
                   5(.
                                        55
 Glu Ser Gly Val Fro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
                                       70
                  £ .
 Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
                   ξÛ
                                       85
 Val Tyr Tyr Cys Glr. 3lm Tyr Tyr Ser Thr Pro Trp Thr Phe Gly
 Gln Gly Thr Lys Val Glu Ile Lys Arg
                  110
(2) INFORMATION FOR SEQ ID NO:7:
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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 17 hase pairs

		(B) TYPE: nucleic acid
		(C) STPANDEDNESS: double
		(D) TOPOLOGY: linear
		MOLECULE TYPE: cDNA
		HYPOTHETICAL:
		ANTI-SENSE:
	(vi)	OPIGINAL SOURCE: human IgM antibody
		(A) OFGANISM:
		(A) OFGANISM: (B) STFAIM: (C) INDIVIDUAL ISOLATE:
		(C) INDIVIDUAL ISOLATE:
		(D) DEVELOFMENTAL STAGE:
		(E) HAFLOTYPE:
		(F) TISSUE TYPE:
		(G) CELL TYPE: (H) CELL LINE:
		(I) CEGANELLE:
	/ • • • • · · ·	
	(\ \ \ \ \ \ \	IMMEDIATE SOURCE:
		(A) LIEPARY: (B) CLONE:
	(171111	POSITION IN GENOME:
	(^	(A) CHECKLSOME/SEGMENT:
		(E) MAP EDSITION:
		(C) UNITS:
	(ix)	FEATURE:
	(+ + + +)	(A) NAME/KEY:
		(B) LOCATION:
		(C) IDENTIFICATION METHOD:
		(D) OTHER IMPORMATION:
	(x)	PUBLICATION INFORMATION:
		(A) AUTHORS:
		(E) TITLE:
		(C) SOUFIMAL:
		(D) VOLUME:
		(E) ISSUE:
		(P) PAGES ·
		(G) DATE:
		(H) LECCUMENT NUMBERS:
		(I) FILING DATE:
		(J) FUBLICATION DATE:
		(K) FELEWANT RESIDUES:
		SEQUENCE DESCRIPTION: SEQ ID NO:7:
C GA	AG GGG	GAA ANG GOT T 17
(2)		RMATION FOR SEQ ID NO:3:
	(i)	SEQUENCE CHAFACTERISTICS:
		(A) LENGTH: 19 base pairs
		(B) TYPE: nucleic acid
		(C) STRANDEDNESS: double
	/ 4 4 N	(D) TOPOLOGY: linear
		MOLECULE TYPE: cDNA HYPOTHETICAL:
		ANTI-SENSE:
		ORIGINAL SOURCE: human IgM antibody
	(AT)	(A) ORGANISM:
		(A) ORGANISM: (B) STRAIN:
		(C) INDIVIOUAL ISOLATE:
		(D) DEVELOPMENTAL STAGE:
		(E) - PHATHATHATATA +: TAGE +

(E) HAPLCTYPE:

		(F) TISSUE TYPE:
		(G) CELL TYPE:
		(H) CELL LINE:
		(I) OFGANELLE:
	(vii)	IMMEDIATE SOURCE:
		(A) LIBPAPY:
		(B) CLONE:
	(viii	POSITION IN GENOME:
	,	(A) CHROMOSCME/SEGMENT:
		(B) MAP FOSITION:
		(C) UNITS:
	(ix)	FEATURE:
	/ ± \(\cdot \)	(A) NAME/KEY:
		(B) LOCATION:
		(C) ILENTIFICATION METHOD:
		(D) OTHER INFORMATION:
	/	
	(X)	PUBLICATION INFORMATION:
		(A) AUTHURS:
		(B) TITLE: (C) FURNAL:
		(D) MOLUME:
		(E) ISSUE:
		(F) FAGES:
		(G) DATE:
		(H) DECUMENT NUMBER:
		(1) FILING DATE:
		(J) FUBLICATION DATE:
		(K) FELEVANT RESIDUES:
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:8:
G AA	AG CTC	CTC AGA GGA GGG 19
(2)		RMATION FOR SEQ ID NO:9:
	(i)	SEQUENCE CHARACTERISTICS:
		(A) LEMOTH: 360 base pairs
		(B) TAPE: nucleic acid
		(C) STRAMPEDNESS: double
		(D) TOFCLOCY: Linear
	(ii)	MOLECULE TYPE: dDNA
	(iii)	HYPOTHER ICAL:
	(iv)	ANTI-SEMSE:
	(vi)	ORIGINAL CEURCE:
		(A) = CREATICM:
		(B) STEAIM:
		(C) INDIVIDUAL ESCLATE:
		(D) DEVELOPMENTAL STAGE:
		(E) HAFLTTEE:
		(F) TISSUE TYPE:
		(G) OELL TYPE: Hybridoma producing human antibody 1-3-1
		(H) CELL LINE:
		(I) MAGAMENTE:
	(vii)	IMMEDIATE SOURCE:
	/	(A) MERGARM:
		(B) CHONE:
	(viii	POSITION IN GENOME:
		(A) CHROMODOME/SEGMENT:

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(B) MAP POSITION:
          (C) UNITS:
         FEATURE:
    (ix)
          (A) NAME/KEY:
          (B)
              LOCATION:
          (C)
              IDENTIFICATION METHOD:
          (\mathbf{D})
             OTHER INFORMATION:
    (X)
        PUBLICATION INFORMATION:
          (A) AUTHORS:
          (E) TITLE:
          (C)
             JOURNAL:
             VOLUME:
          (D)
          (E)
             ISSUE:
         (F)
             PAGES:
         (G)
             DATE:
         (H)
             DOCUMENT NUMBER:
         (I)
              FILING DATE:
             PUBLICATION DATE:
         (J)
             RELEVANT RESIDUES:
         (K)
         SEQUENCE DESCRIPTION: SEQ ID NO:9:
    (xi)
CAG CTG CAG CAG GAG TOG GGC CCA GGA CTG GTG AAG CCT TCG
GAG ACC CTG TCC CTC ACT TGC ACT GTC TCT GGT GGC TCC ATC AGS
                                                             90
AGT AGT TAC TAC TOO GOD TGS ATO CGC CAG CCC CCA GGG AAG
                                                             135
GGG CTG GAG TGG ATT GGG AGT ATC TAT TAT AGT GGG AGC ACC TAC
TAC AAC CCG TCC CTC AND AGT CGA GTC ACC ATA TCC GTA GAC ACG
TCC AAG AAC CAG TTC TCC CTG AAG CTG AGC TCT GTG ACC GCC GCA
315
TAC TAC GGT ATG GAG GTG TGG GGC CAA GGG ACC ACG GTC ACC GTC
                                                             360
TCC TCA
                                                             366
(2)
    INFORMATION FOR SEQ ID NO:10:
         SEQUENCE CHAPACTERISTICS:
          (A) LENGTH: 324 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: double
         (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE:
                        CDNA
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi)
         ORIGINAL SOURCE:
         (A) ORGANISM:
          (E)
              STFAIN:
          (C)
              INDIVIDUAL ISOLATE:
              DEVELOPMENTAL STAGE:
          (D_1)
         (E)
             HARLOTYPE:
             TISSUE TYPE:
          (F')
              CELL TYFE: Hybridema producing human antibody 1-3-1
          (G)
         (H)
              CELL LINE:
         (I)
             ORGANIELLE:
    (vii) IMMEDIATE SOURCE:
          (A)
             - DIEFART:
          (E)
             CLONE:
    (viii) POSITION IN GENOME:
          (A) CHROMOCOME / SEGMENT:
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(B) MAP POSITION:

(C) UNITS:

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(ix) FEATURE:
          (A) NAME/KEY:
              LCCATION:
          (B)
          (C)
              INENTIFICATION METHOD:
          (D)
              OTHER INFORMATION:
    (X)
        PUBLICATION INFORMATION:
          (A) AUTHORS:
          (B) TITLE:
          (C) JCURHAL:
          (D) VCLUME:
          (E) ISSUE:
          (F) EAGES:
          (G) DATE:
              DOCUMENT NUMBER:
          (H)
          (I) FILING DATE:
          (J) FUBLICATION DATE:
          (K) RELEMANT RESIDUES:
        SEQUENCE DESCRIPTION: SEQ ID NO:10:
    (xi)
TAT GAG CTG ACA CAG CCA CCC TCC GTG TCA GTG TCC CCA GGA CAG
ACG GCC AGG ATC AGG TGC TCC GGA GAT GCA TTG CCA AAG CAA TAT
GCT TAT TGG TAC CAG CAG AAG CCA GGC CAG GCC CCT GTG CTG GTG
                                                              135
ATA TAT AAA GAG AGT GAG AGG CCC TCA GGG ATC CCT GAG CGA TTC
                                                              180
TCT GGC TCC AGC TCA GGG ACA ACA GTC ACG TTG ACC ATC AGT GGA
                                                              225
GTC CAG GCA GAA GAG GAT GAG TAT TAG TGT CAA TCA GCA GAG
                                                              270
AGC AGT GGT ACT TAT GAG GTA TTO GGO GGA GGG ACC AAG CTG ACC
                                                              315
GTC CTA GGT
                                                              324
    INFORMATION FOR SEQ ID NO:11:
    (i)
         SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 122 amino acids
          (E) TYPE: amino acid
          (C) STRANDEDMESS: single
         (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: protein
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) ORIGINAL SOURCE:
         (A) = OF/GACLEM:
              STEAIN:
          (E_i)
          (C) INDIVIDUAL ISOLATE:
          (D) DEVELOPMENTAL STAGE:
          (E) HARDOTYPE:
          (F) TISSUE TYPE:
          (G)
              GELL TYPE: Hybridoma producing human antibody 1-3-1
          (H) CELL I HE:
          (I) CAGAGELLE:
    (vii) IMMEDIATE SOURCE:
          (A) LIBRAEY:
              CLONE:
          (B)
    (viii) POSITION IN GENOME:
          (A) CHROMOSOME SEGMENT:
          (B) MAP POSITION:
         (C) UNITS:
         FEATURE:
    (ix)
          (A) NAME, RET:
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(B) LOCATION:

- (C) IDENTIFICATION METHOD:
- (D) OTHER INFORMATION:
- (x) PUBLICATION INFOFMATION:
 - (A) AUTHOFS:
 - (B) TITLE:
 - (C) JOURNAL:
 - (D) VOLUME:
 - (E) ISSUE:
 - (F) FAGES:
 - (G) DATE:
 - (H) DOCUMENT NUMBER:
 - (I) FILING DATE:
 - (J) FUBLICATION DATE:
 - (K) RELEVANT RESIDUES:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

```
| Gln | Leu | Gln | Leu | Gln | Glu | Ser | Gly | Pro | Gly | Leu | Val | Lys | Pro | Ser | 1 | 15 |
| Glu | Thr | Leu | Ser | Leu | Thr | Cys | Thr | Val | Ser | Gly | Gly | Ser | The | Ser | Gly | Gly | Ser | The | Ser | Gly | Gly | Ser | The | Gly | Try | Gly | Try | Gly | Gly | Ser | The | Gly | Lys | Gly | Gly | Ser | Thr | Tyr | Gly | Lys | Gly | Ser | Thr | Tyr | Ser | Gly | Ser | Thr | Tyr | Gly | Gly | Thr | Thr | Gly | Gly | Thr | Thr | Gly | Gly | Thr | Thr | Gly | Gly | Tyr | Gly |
```

- (2) INFORMATION FOR SEQ ID NO:12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 108 amino acids
 - (B) TYFE: amino soid
 - (C) STRANDEDNESS: single
 - (D) TOFOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (iii) HYPOTHETICAL:
 - (iv) ANTI-SENSE:
 - (vi) ORIGINAL POURCE:
 - (A) ORGANIOM:
 - (B) STRAIN:
 - (C) INDIVIDUAL ISOLATE:
 - (D) DEMENDEMENTAL STAGE:
 - (E) HAFLOTYPE:
 - (F) TIESUE TYPE:
 - (G) CELL TYPE: Hybridoma producing human antibody 1-3-1
 - (H) CELL LINE:
 - (I) ORGANELLE:
 - (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY:
 - (B) CLONE:

```
(viii) POSITION IN GENOME:
```

- (A) CHROMOSOME/SEGMENT:
- (B) MAP POSITION:
- (C) UNITS:

(ix) FEATURE:

- (A) NAME/KEY:
- (B) LOCATION:
- (C) IDENTIFICATION METHOD:
- (D) OTHER INFORMATION:

(x) PUBLICATION INFORMATION:

- (A) AUTHORS:
- (B) TITLE:
- (C) JOURNAL:
- (D) VOLUME:
- (E) ISSUE:
- (F) PAGES:
- (G) DATE:
- (H) DOCUMENT NUMBER:
- (I) FILING DATE:
- (J) FUBLICATION DATE:
- (K) RELEVANT RESIDUES:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Tyr Glu Leu Thr Glr Fro Pro Ser Val Ser Val Ser Pro Gly Gln 15 1 -10Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Gln Tyr 30 Ala Tyr Trp Tyr Glr. Gln Lys Pri Gly Gln Ala Pro Val Leu Val 40 45 Ile Tyr Lys Asp Sor Shu Arg Pro Ser Gly Ile Pro Glu Arg Phe 55 5.0 60 Ser Gly Ser Ser Ser Gly Thr Thr Val Thr Leu Thr Ile Ser Gly 70 Val Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Ala Asp 90 8.5 Ser Ser Gly Thr Tyr Glo Val Phe Gly Gly Gly Thr Lys Leu Thr

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amine acids
 - (B) TYFE: amino acid
 - (C) STFANDEDNESS: single
 - (D) TOFOLOGY: linear
- (ii) MOLECULE TYFE: protein
- (iii) HYPOTHETICAL:
- (iv) ANTI-SENSE:

Val Leu Gly

- (vi) ORIGINAL SCURCE:
 - (A) OFGAMISM:
 - (E) STFAIN:
 - (C) INDIVITUAL ISOLATE:
 - (D) DEVELOPMENTAL STAGE:
 - (E) HAPLOTYPE:
 - (F) TISSUE TYPE:
 - (G) CELL TYPE: hybridoma producing human monoclonal

antibidy, an antigen to which exists on the pancer cell membrane surface of (H) CELL LINE: (I) OFGANELLE: (vii) IMMEDIATE SOURCE: (A) LIBEARY: (B) CLEME: (viii) POSITION IN GENOME: (A) CHECHOSOME/SEGMENT: (E) MAE POSITION: (C) UNITS: (ix) FEATURE: (A) NAME/KEY: (B) LOCATION: 4 (C) IDENTIFICATION METHOD: (D) OTHER INFORMATION: xaa = "Cys or Ser" (ix) FEATURE: (A) NAME FET: (B) LOWATION: S INSUTIFICATION METHOD: (C)(D) CTHEE INSCEMATION: kaa = "Gly or Ser" FEATURE: (ix) (A) NAME-KEY: DOCATION: 0 (E) (C) IDENTIFICATION METHOD: (D) OTHER INFORMATION: xaa = "Phe or Tyr" (x) PUBLICATION INFOFMATION: (A) AUTHORS: (B) TITLE: (C) JOHENAL: (D) VOLUME: (E) ISSUE: (F) EASES: (G) DATE: (H) DOWMENT NUMBER: (I) FILING DATE: (J) FUBBLICATION DATE: (E) RELEMANT RESIDUES: (xi) SEQUENCE [ESCRIPTION: SEQ ID NO:13: Ile Ser Ser Xaa Xaa Xaa Tyr Trp INFORMATION FOR SEQ ID NO:14: (2)(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (iii) HYPOTHETICAL: (iv) ANTI-SEMSE: (vi) ORIGINAL SOURCE: (A) ORWANISM:

(b) STFAIN:

(E) HAPLOTYPE:

(C) INDIMIDUAL ISOLATE:
(D) DEMENSIANE STAGE:

- (F) TISSUE TYPE:
- (G) CELL TYPE: hybridoma producing human monoclonal antibody, an antigen to which exists on the surface of tancer cell membrane
- (H) CELL LINE:
- (I) ORGANELLE:
- (vii) IMMEDIATE SOUFCE:
 - (A) LIBRARY:
 - (B) CLONE:
- (viii) POSITION IN GENOME:
 - (A) CHROMESOME/SEGMENT:
 - (B) MAE POSITION:
 - (C) UNITS:
- (ix) FEATURE:
 - (A) NAME, FEY:
 - (B) LOCATION: 3
 - (C) IDENTIFICATION METHOD:
 - (D) OTHER INFORMATION: Maa + "Tyr or Ser"
- (x) PUBLICATION INFORMATION:
 - (A) AUTHORS:
 - (B) TITLE:
 - (C) JOURNAL:
 - (D) VOLUME:
 - (E) ISSUE:
 - (F) EAGES:
 - (G) DATE:
 - (H) ECCUMENT NUMBER:
 - (I) FILING DATE:
 - (J) FUBLICATION DATE:
 - (K) RELEVANT RESIDUES:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Ile Gly Xaa Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr
1

- (2) INFORMATION FOR SEC ID NO:15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (E) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (iii) HYPOTHETICAL:
 - (iv) ANTI-SENSE:
 - (vi) ORIGINAL FOURCE:
 - (A) ORGANISM:
 - (B) STEAIN:
 - (C) INDIMIDUAL ISOLATÉ:
 - (D) DEVELORMENTAL STAGE:
 - (E) HAPLOTYPE:
 - (F) TIBSUE TYPE:
 - (G) CELL TYPE: hybridoma producing human monoclonal antibody, an antigen to which exists on the surface of
 - cancer cell membrane CELL LINE:
 - (I) ORGANELLE:
 - (vii) IMMEDIATE SOURCE:

(H)

```
(A) LIBFARY:
          (B)
              CLONE:
    (viii) POSITION IN GENOME:
          (A) CHECHOSOME/SEGMENT:
          (E) MAE POSITION:
          (C) UNITS:
   (ix)
         FEATURE:
         (A) NAME/FET:
          (B) LOCATION: 2
          (C) IDENTIFICATION METHOD:
         (D) OTHER INFORMATION: xaa = "Ala or Met"
   (ix)
         FEATURE:
         (A) NAME/KET:
              LOCATION: 4
         (E)
              IDENTIFICATION METHOD:
         (\odot)
          (D) OTHER INFORMATION: xaa = "Tyr or Val"
    (x) PUBLICATION INFORMATION:
          (A) ANTHORS:
              TITLE:
          (E_i)
          ( ○)
              JOURNAL:
          (D)
              MOLUME:
              ISSUE:
          (\Xi)
          (F)
              FAGE::
          (G)
              DATE:
          (H)
              DICUMENT NUMBER:
          (I)
              FILING DATE:
          (J) PUBLICATION DATE:
         (E)
              RELEMANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
Gly Xaa Asp Xaa
(2)
   INFORMATION FOR SEQ ID NO:16:
         SEQUENCE CHARACTERISTICS:
          (A) DENGTH: 9 amino acids
          (E) TYPE: amino acid
          (C) STRANCENESS: single
         (E) TOPCLEST: Linear
   (ii) MOLECULE TYPE: protein
   (iii) HYPOTHETICAL:
   (iv) ANTI-SENSE:
   (vi) ORIGINAL SOURCE:
         (A) ORGANISM:
          (E) STPAIN:
          (C) INDIVIDUAL ISOLATE:
          (\Box \cdot)
             DEVELORMENTAL STAGE:
          (E)
              HARLOTYLE:
          ( F')
              TIBSUE TYPE:
              CELL TYPE: Hybridoma producing human antibody GAH
         (H)
              CELL LINE:
         (I) ORGANELLE:
   (vii) IMMEDIATE SCURCE:
         (A)
             LIEFAFY:
             CLONE:
          (E)
```

(viii) POSITION IN GENOME:

(A) CHROMOSOME/SEGMENT:

```
(B) MAP POSITION:
         (C) UNITS:
         FEATUPE:
    (ix)
         (A) NAME/KEY:
         (B)
              LOCATION:
         (C)
              IDENTIFICATION METHOD:
         (D) OTHER INFORMATION:
        PUBLICATION INFOFMATION:
    (X)
         (A) AUTHORS:
          (B) TITLE:
         (C) JOURNAL:
         (D) VOLUME:
         (E) ISSUE:
         (F) FAGES:
         (G) DATE:
         (H) DOCUMENT NUMBER:
         (I) FILING DATE:
         (J) FUBLICATION DATE:
         (K) RELEVANT RESIDUES:
        SEQUENCE DESCRIPTION: SEQ ID NO:16:
Ile Ser Ser Cys Gly Ene Tyr Trp Asn
 1
(2) INFORMATION FOR SEQ ID NO:17:
    (i)
         SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 12 amino acids
          (B)
             TYPE: amino acid
             STRANDEDNESS: single
          (C)
         (D) TOFOLOGY: linear
    (ii) MOLECULE TYPE: protein
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) ORIGINAL SOURCE:
         (A) OF SAULSM:
         (E) STEAIN:
         (C) INDIVIDUAL ISOLATE:
         (D) DEVELOPMENTAL STAGE:
         (E) HAPLITYPE:
          (F) TISSUE TYPE:
          (G) CELL TYPE: Hybridoma producing human antibody GAH
         (H) CELL LINE:
             ORGANIELLE:
         (I)
    (vii) IMMEDIATE SOURCE:
          (A) LIBFARY:
              CLEME:
          (E)
    (viii) POSITION IN GENOME:
          (A) THRUMGOME/SEGMENT:
             MAR FOSITION:
          (E)
         (\Box)
             UNITE:
         FEATURE:
    (ix)
          (A) NAME/HEY:
          (B) LOCATION:
```

(C) IDENTIFICATION METHOD:
(D) OTHER INFORMATION:

(B) TITLE: (C) JOUFNAL: (D) VOLUME: (E) ISSUE: (F) PAGES: (G) DATE: DOCUMENT NUMBER: FILING DATE: (H) (I)(J) PUBLICATION DATE: (K) FELEVANT FESIDUES: (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17: Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr (2) INFORMATION FOR SEC ID NO:13: SEQUENCE CHARACTERISTICS: (i) (A) LENGTH: ? amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (iii) HYPOTHETI MALL: (iv) ANTI-SENSE: ORIGINAL SOURCE: (vi) (A) OF GANISM: (B) STFAIN: (C) INDIMIDUAL ISOLATE: (D) DEVELOPMENTAL STAGE: (E) HAPLOTYFE: (F) TISSUE TYPE: (G) CELL TYPE: Hybridoma producing human antibody GAH (H) CELL LINE: (I) OF GAMELLE: (vii) IMMEDIATE SOURCE: (A) LIBEAST: (E) CISCUE: (viii) POSITION IN GENOME: (A) CHROM. COME/SEGMENT: (E) MAE ETSITION: (C) UNITS: (ix) FEATURE: (A) NAME/FEY: (B) LOCATION: (C) IDENTIFICATION METHOD: (D) OTHER INFORMATION: (x)PUBLICATION INFORMATION: (A) AUTHORA: (b) TITLE: (c) JOURNAL: (D) MOLUME: (E) ISSUE: (F) FAGES:

(G) DATE:

(H) DDCUMENT NUMBER:(I) FILING DATE:(J) PUBLICATION DATE:

(K) PELEVANT PESIDUES:

(2) INFORMATION FOR SEQ ID NO:20: (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 7 amino acids

```
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
Ser Thr Arg Leu Arg Gly Ala Asp Tyr
(2) INFORMATION FOR SEQ ID NO:19:
         SEQUENCE CHARACTERISTICS:
    (i)
          (A) LENGTH: 17 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOFOLOGY: linear
    (ii) MOLECHLE TYPE: protein
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) ORIGINAL SOURCE:
          (A) CEGACIISM:
          (B) STRAIN:
          (C) INDIVIDUAL ISOLATE:
          (D) LEVELOPMENTAL STAGE:
          (E) HAFLOTYFE:
              TISSUE TYPE:
          (F)
              TELL TYPE: Hybridoma producing human antibody GAH
          ( \bigcirc )
          (H)
               CELL LINE:
              PRGANELLE:
          (I)
    (vii) IMMEDIATE SCHROE:
              DIBRARY:
          (A)
              DLOME:
          (E)
    (viii) POSITION IN GENOME:
              THEOMOSOME/SEGMENT:
          (A)
          (E)
              MAE POSITION:
          (C)
              UNITE:
    (ix) FEATURE:
          (A) NAME HET:
          (E)
              LOCATION:
          (C) IDENTIFICATION METHOD:
          (b) THER INFORMATION:
       FUBLICATION INFORMATION:
          (A) AUTHORS:
              TITLE:
          (B)
          (C)
              JOURNAL:
              MODUME:
          (\mathbb{D})
              1837E:
          (E)
              FAGES:
          (F)
              LATE:
          (G)
              DOCUMENT NUMBER:
          (H)
              FILING DATE:
          (I)
          (J) FUBLICATION DATE:
          (E) RELEMANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
Lys Ser Ser Gln Ser Mal Leu Tyr Asn Ser Asn Asn Lys Lys Tyr Leu Ala
                                     10
```

(B) TYPE: amino acid

ORIGINAL SOURCE:

(A) ORGANISM: (B) STRAIN:

(vi)

ı

```
(C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
         MCLECULE TYPE: protein
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) OFIGINAL SOURCE:
          (A) OFGANISM:
          (B) STFAIN:
          (C) INDIVIDUAL ISOLATE:
          (D) DEVELOPMENTAL STAGE:
          (E) HAFLOTYPE:
          (F) TISSUE TYPE:
          (G) SELL TYPE: Hybridoma producing human antibody GAH
          (H) CELL LINE:
          (1) OFGANELLE:
    (vii) IMMEDIATE SOURCE:
          (A)
              LIEFAFY:
          (B) CLONE:
    (viii) POSITION IN GENOME:
          (A) CHROMOGOME/SEGMENT:
          (E) MAE POSITION:
             UNIT3:
          (C)
    (ix)
         FEATURE:
          (A) NAME/KEY:
              LOCATION:
          (E)
              IDENTIFICATION METHOD:
          (±0.1)
          (D) OTHER INFORMATION:
       PUBLICATION INFORMATION:
    (x)
          (A) AUTHORS:
          (E) TITLE:
          (C) JOURNAL:
          (I) WELVIES:
          (E) ISSUE:
          (F)
             EAGES:
          (G) DATE:
          (H) DOCUMENT NUMBER:
          (I) BILING TATE:
          (I) FUBLICATION DATE:
          (M) RELEMMENT RESIDUES:
         SEQUENCE DESCRIPTION: SEQ ID NO:20:
Trp Ala Ser Thr Ary Gl. Ser
    INFORMATION FOR SEQ ID NO:21:
         SEQUENCE CHARACTERISTICS:
    (i)
          (A) LENGTH: 9 amino acids
          (B) TYEE: aminc acid
          (C) STRANDEDNESS: single
          (D) TOFOLOGY: linear
    (ii) MOLECULE TYPE: protein
    (iii) HYPOTHETICAL:
    (iv) ANTI-SEMBE:
```

```
(C) INDIVIDUAL ISOLATE:
          (D) DEVELOPMENTAL STAGE:
          (E) HAPLOTYPE:
          (F) TISSUE TYPE:
          (G) CELL TYPE: Hybridoma producing human antibody GAH
          (H) CELL LINE:
          (I)
              ORGANELLE:
    (vii) IMMEDIATE SOURCE:
          (A) LIBRAEY:
          (E)
              CLONE:
    (viii) POSITION IN GENOME:
          (A) CHECIMOSOME/SEGMENT:
          (B) MAP POSITION:
          (C) UNITS:
    (ix)
         FEATURE:
          (A) NAME/FEU:
          (B) LOCATION:
          (C) IDENTIFICATION METHOD:
          (D) OTHER INFORMATION:
        PUBLICATION INFORMATION:
          (A) AUTHORS:
          (b) TITLE:
              MURNAL:
          (::]
          (D) VOLUME:
              ISSUE:
          (\Xi)
              FAGES:
          (F)
          (G)
               DATE:
              PRODUMENT NUMBER:
          (H)
          (I)
              FILING DATE:
          ( T. )
              FUBLICATION DATE:
          (K) FELEVANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:
Gln Gln Tyr Tyr Ser Thi Pro Trp Thr
 1
    INFORMATION ELE MIQ ID NO:22:
          SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 10 amino acids
          (b) TYPE: amino acid
          (C) STEWNESHNESS: single
          (b) TCFOLUSY: linear
    (ii) MOLECULE TYPE: protein
    (iii) HYPOTHETICAL:
    (iv) AMTI-SEMSE:
         ORIGINAL SOURCE:
    (vi)
          (A) CECANISM:
              STEAIN:
          (\cdot; \cdot; \cdot)
              INDIMIDUAL ISOLATE:
              DEMFLIPMENTAL STAGE:
          (1)
              HAPLOTYPE:
          (\Xi)
          (F)
              TISSUE TYPE:
          (G)
              CELL TYPE: Hybridoma producing human antibody 1-3-1
          (H)
              CELL LINE:
          (I) CRGANELLE:
    (vii) IMMEDIATE SOURCE:
          (A) LIEFARY:
```

(B) CLONE:

```
(viii) POSITION IN GENOME:
              CHROMOSOME/SEGMENT:
          (A)
          (B) MAP POSITION:
          (C)
              UNITS:
    (ix)
         FEATURE:
          (A) NAME/KET:
             Lecarion:
          (E)
             IDENTIFICATION METHOD:
          (\mathbb{C})
          (D) OTHER INFORMATION:
    (x) PUBLICATION INFORMATION:
          (A) AUTHORS:
          (B) TITLE:
             JOURNAL:
          (D) VOLUME:
          (E) ISSUE:
          (F)
             FAGEA:
          (G) DATE:
             DESCUMENT NUMBER:
          (H)
              FILING DATE:
          ( I )
          (J) FUELICATION DATE:
          (K) RELEVANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:
Ile Ser Ser Ser Ser Ty: Tyr Trp Gly Trp
   INFORMATION FOR SEQ ID NO:23:
(2)
         SEQUENCE CHARACTERISTICS:
    (i)
          (A) LENGTH: 14 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: protein
    (iii) HYPOTHETICAL:
    (iv) ANTI-SEMSE:
    (vi) ORIGINAL MOUNCE:
          (A) OEGANISM:
          (B) STFAIN:
          (0) INDIMIDUAL ISOLATE:
          (D) DEVELOPMENTAL STAGE:
          (E) HARLCTYFE:
              TISSUE TYPE:
          (F)
              CEIL TYPE: Hybridoma producing human antibody 1 3 1
              CELL LINE:
          (H)
              ORSANELLE:
          (I)
    (vii) IMMEDIATE SOURCE:
          (A) LIEFARY:
          (E) CLONE:
    (viii) POSITION IN GENOME:
          (A) CHRCMOSOME/SEGMENT:
          (B) MAP POSITION:
          (c) UNITS:
        FEATURE:
    (ix)
          (A) NAME, KEY:
          (B) LOCATION:
```

(C) IDENTIFICATION METHOD:

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(D) OTHER INFOFMATION:
    (x)
        PUBLICATION INFOFMATION:
          (A) AUTHORS:
          (B) TITLE:
          (C) JOUFMAL:
          (D) VOLUME:
          (E) ISSUE:
          (F) PAGES:
          (G) DATE:
          (H) DOCUMENT NUMBER:
          (I) FILING DATE:
          (J) FUBLICATION DATE:
          (K) FELEWANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:
Ile Gly Ser Ile Tyr Tyr Se: Gly Ser Thr Tyr Tyr Asn Pro
 1
(2) INFORMATION FOR SEQ 1D NO:24:
          SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 12 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
(D) TOPOLOGY: linear
    (ii) MCLECULE TYPE: protein
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) OFIGINAL FIURCE:
         (A) OFGANISM:
          (E) STEAIN:
          (C) INCIMIDUAL ISOLATE:
          (D) DEMELORMENTAL STAGE:
          (E) HARLITYPE:
          (F) TIOSUE TYPE:
          (G) CELL TYPE: Hybridoma producing human antibody 1-3-1
          (H) OFLL LINE:
          (I) CHARMELLE:
    (vii) IMMEDIATE SOURCE:
          (A) LIBEARY:
          (E) CLONE:
    (viii) POSITION IN GENOME:
          (A) CHROMOSOME/BEGMENT:
          (E) MAP FOSITION:
(C) UNITS:
    (ix)
          FEATURE:
          (A) NAME/KEY:
          (E) LOCATION:
          (C) IDENTIFICATION METHOD:
          (D) OTHER INFORMATION:
    (x) PUBLICATION INFORMATION:
          (A) AUTHORS:
          (B) TITLE:
          (C) JURNAL:
          (D) MOLUME:
          (E) IJSUE:
```

(F) PAGES:
(G) DATE:

(H) DOCUMENT NUMBER:

Asp Ala Leu Pro Lys Gln Tyr Ala Tyr

```
(I) FILING DATE:
         (J) PUBLICATION DATE:
         (K) FELEVANT FESIDUES:
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:
 Gly Ser Tyr Gly Gly Tyr Tyr Tyr Gly Met Asp Val
(2) INFORMATION FOR SEQ ID NO:25:
         SEQUENCE CHAFACTEFISTICS:
   (i)
         (A) LENGTH: 9 amino acids
         (B) TYFE: amino acid
         (C) STFANDEDNESS: single
         (D) TOFOLOGY: linear
   (ii) MOLECULE TYPE: protein
   (iii) HYPOTHETICAL:
   (iv) ANTI-SENSE:
   (vi) OFIGINAL STURCE:
         (A) CESACI SM:
             STÉAIN:
         (F)
         (c) INDIMIDUAL ISOLATE:
         (D) DEVELOPMENTAL STAGE:
         (E) HAPLOTYFE:
         (F) TIBSUE TYPE:
         (6) CELL TYPE: Hybridoma producing human antibody 1-3-1
         (H) CELL LINE:
         (I) CFGAMELLE:
   (vii) IMMEDIATE SOURCE:
         (A) LIERARY:
         (B) CLONE:
    (viii) POSITION IN GENOME:
         (A) CHROMOSOME/SEGMENT:
         (B) MAE POSITION:
         (C) UNITS:
    (ix) FEATURE:
         (A) NAME/EET:
             idearion:
         (E)
             IDENTIFICATION METHOD:
         (C)
         (D) OTHER IMPDEMATION:
        PUBLICATION INFORMATION:
    (X)
         (A) AUTHORS:
         (B) TITLE:
         (C) JOURNAL:
         (I) MODUME:
         (E) ISSUE:
         (F)
             FAGES:
         (G) DATE:
         (H) INCUMENT NUMBER:
         (I) FILING DATE:
         (J) FUBLICATION DATE:
         (F) RELEWANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:
```

```
INFORMATION FOR SEQ ID NO:26:
         SEQUENCE CHAFACTERISTICS:
         (A) LENGTH: 4 amino acids
         (B) TYPE: amino acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
   (ii) MOLECULE TYPE: protein
   (iii) HYPOTHETICAL:
   (iv) ANTI-SENSE:
   (vi) ORIGINAL SOURCE:
         (A) OFGANISM:
         (B) STEAIN:
         (C) IMPIVIDUAL ISOLATE:
         (D) DEVELOPMENTAL STAGE:
         (E) HARLOTYFE:
         (F) TISSUE TYPE:
         (G) CELL TYPE: Hyrridoma producing human antibody 1-3-1
         (H) CELL LINE:
         (I) ORGANELLE:
    (vii) IMMEDIATE SOURCE:
         (A) LIEFAFN:
         (B) CLONE:
    (viii) POSITI'N IN GENOME:
          (A) CHROMOSOME/SEGMENT:
          (E) MAE POSITION:
         (C) UNITS:
   (ix) FEATURE:
         (A) NAME/EEY:
         (E) LOCATION:
         (C) IDENTIFICATION METHOD:
         (D) OTHER INFORMATION:
        PUBLICATION INFORMATION:
         (A) ANTHOES:
         (B) TITLE:
             TOURNAL:
         (\bigcirc)
         (In) VOLUME:
         (E) IFSUE:
         (F) PAGES:
              DATE:
         ( G)
         (H)
              DOCUMENT NUMBER:
          (I) FILING DATE:
         (J) FUBLICATION DATE:
         (K) RELEVANT RESIDUES:
   (x1) SEQUENCE DESCRIPTION: SEQ ID NO:26:
Lys Asp Ser Glu
(2) INFORMATION FOR JEQ ID ND:27:
         SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 11 amino acids
         .b) TYPE: amino acid
         +C) STRANDEDNESS: single
```

.D) TOPOLOGY: linear
(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL:
(iv) ANTI-SENSE:

```
(vi) OPIGINAL SOURCE:
          (A) ORGANISM:
          (B) STFAIN:
              INDIVIDUAL ISOLATE:
          (C)
          (D) DEVELOFMENTAL STAGE:
          (E) HAFLOTYFE:
          (F) TISSUE TYPE:(G) CELL TYFE: Hybridoma producing human antibody 1-3-1
          (H) CELL LINE:
          (I) ORGANELLE:
    (vii) IMMEDIATE SOURCE:
          (A) LIBEAFY:
          (B) CLONE:
    (viii) POSITION IN GENOME:
          (A) CHROMOSOME/SEGMENT:
          (E) MAP POSITION:
          (C) UNITS:
    (ix) FEATURE:
          (A) NAME/FET:
          (E)
              LOCATION:
          (C)
              IDENTIFICATION METHOD:
          (I) OTHER INFORMATION:
         PUBLICATION INFORMATION:
          (A) AUTHORS:
              TITLE:
JOURNAL:
          (E)
          (\Box)
              VEGLUME:
          (\Box)
              ISSUE:
          (E)
          (F)
              EAGES:
              EATE:
          (G)
              DOCUMENT NUMBER:
          (H)
          (I)
              FILING DATE:
          (J)
              FUELICATION DATE:
          ( K)
              RELEVANT RESIDUES:
         SEQUENCE DESCRIPTION: SEQ ID NO:27:
Gln Ser Ala Asp Ser Ser Gly Thr Tyr Glu Val
 1
(2) INFORMATION FOR SEQ ID NO:23:
          SEQUENCE CHARACTERISTICS:
    (i)
          (A) LENGTH: 24 base pairs
          (E) TYPE: nucleis acid
          (C) STRANDEDNESS: double
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: cDNA
    (iii) HYPOTHETICAL:
    (iv) ANTI-SEMSE:
    (vi) ORIGINAL FOURCE:
          (A) ORGANISM:
          (B) STRAIN:
          (C) INDIVIDUAL ISOLATE:
          (D) DEVELOPMENTAL STAGE:
          (E) HAPLOTYPE:
          (F) TISSUE TYPE:
          (G) CELL TYPE: Hybridoma producing human monoclonal
```

antibody, an antigen to which exists on the surface of

cancer cell membrane (H) CELL LINE: (I) OFGANELLE: (vii) IMMEDIATE SOUPCE: (A) LIBRARY: (B) CLONE: (viii) POSITION: IN GENOME: (A) CHECHOSOME/SEGMENT: (B) MAE POSITION: (C) UNITS: (ix) FEATUFE: (A) NAME/RET: (B) LOCATION: (C)IDENTIFICATION METHOD: (D) OTHER INFORMATION: PUBLICATION INFOFMATION: (x)(A) AUTHORS: TITLE: (B) (C) JOURNAL: (D) WOLUME: (E) ISSUE: (F) FAGES: (G) CATE: ICCUMENT NUMBER: (H) FILING DATE: (I) (T,) FUELICATION DATE: (K) FELEVANT RESIDUES: SEQUENCE DESCRIPTION: SEQ ID NO:28: ATC AGC AGT WGT FOR TWO TAC TGG 24 INFORMATION FOR SEQ ID NO:29: (2) SEQUENCE CHARACTERISTICS: (i) (A) LENGTH: 3% base pairs (B) TYFE: nucleic acid (C) STRAMMELNESS: double (D) TIFONOSY: linear (ii) MOLECULE TYPE: -cDNA (iii) HYPOTHETICAL: (iv) ANTI-SENSE: (vi) ORIGINAL SOURCE: (A) OF SANISM: (B) STFAIN: (C) INDIVIDUAL ISOLATE: (L+) DEVELORMENTAL STAGE: (E) HAPLOTYPE: (F) TIDSUE TYPE: CELL TYPE: Hybridoma producing human monoclonal antibody, an antigen to which exists on the surface of cancer sell membrane (H) CELL LINE: (I) OF SAMELLE: (vii) IMMEDIATE SOURCE: (A) LIFRARY:

(B) CLENE: (viii) POSITION IN GENOME:

(A) CHROMOSOME, SEGMENT:

```
(B) MAP POSITION:
          (C)
              UNITS:
          FEATURE:
    (ix)
          (A) NAME/KEY:
              LOCATION:
          (B)
          (C)
              IDENTIFICATION METHOD:
          (D)
              OTHER INFORMATION:
         PUBLICATION INFORMATION:
          (A) AUTHORS:
          ( P.)
              TITLE:
          (C)
              JUURNAL:
          ( [b)
              VOLUME:
          (E)
              ISSUE:
              FAGES:
          (F)
          (G)
              DATE:
              DOCUMENT NUMBER:
          (H)
              FILING DATE:
          (I)
              FUBLICATION DATE:
          (\mathbb{T})
          (K)
              RELEMANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:
ATT GGG WEY ATC TAT TAY AGT GGG AGC ACC TAC TAC
(2) INFORMATION FIR SEQ ID NO:30:
          SEQUENCE CHARACTERISTICS:
    (i)
          (A) LENGTH: 12 base pairs
          (E) TYPE: nucleic acid
          (C) STRANDELNESS: double
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: GDNA
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) ORIGINAL SOURCE:
          (A) CRGANISM:
              STFAIN:
          ( E.)
              INDIVIDUAL ISOLATE:
          (:])
              DEMELS PMENTAL STAGE:
          (E)
          (E)
              HAFLOTYLE:
          (F)
              TISSUE TYPE:
              CELL TYPE: Hybridoma producing human monoclonal
          antibody, an antigen to which exists on the surface of
               cancer cell membrane
          (H)
              CELL LINE:
              ORGANELLS:
          (I)
    (vii) IMMEDIATE SOURCE:
          (A) LIEFARY:
          (E)
              CLONE:
    (viii) POSITION IN GENOME:
              CHRIMISOME'SEGMENT:
          (A)
          (B) MAP POSITION:
              UNITS:
          (∵)
    (ix) FEATURE:
          (A) NAME/KEY:
              LOCATION:
          (E)
              IDENTIFICATION METHOD:
          (C)
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(E)

OTHER INFORMATION:

(x) PUBLICATION INFORMATION:

(A) AUTHORS:

(I) FILING DATE:

(J) PUBLICATION DATE:

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(B)
              TITLE:
          (C) JOURNAL:
          (D) VOLUME:
              ISSUE:
          (E)
              PAGES:
          (F)
          (G)
              DATE:
          (H)
              LOCUMENT NUMBER:
              FILING DATE:
          (I)
              FUBLICATION DATE:
          (J)
          (K) FELEVANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:
GGK RYK GAC KWC
                     1.2
    INFORMATION FOR SEQ ID NO:31:
          SEQUENCE CHARACTERISTICS:
          (A) IENSTH: 24 base pairs
          (B) TYPE: nucleic acid
          (C) STEAMDEDNESS: double
          (D) TOFOLOGY: linear
         MOLECULE TYPE: cDNA
    (ii)
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENJE:
    (vi) ORIGINAL SOURCE:
          (A) CEGANISM:
              STEAIN:
          (\Xi)
              INDIVIDUAL ISOLATE:
          (::)
          (D) DEVELORMENTAL STAGE:
          (E) HAPLOTYPE:
          (F)
              TISSUE TYPE:
          (G) CELL TYPE: Hybridoma producing human antibody GAH
          (H) CELL LINE:
              CARGAMELLE:
          (I)
    (vii) IMMEDIATE SOURCE:
          (A) LIBEARY:
          (B) CLONE:
    (viii) POSITION IN GENOME:
          (A) CHROMOSOME/SEGMENT:
          (E) MAR FOSITION:
          (C) UNITE:
    (ix) FEATURE:
          (A) NAME/KEY:
              LOCATION:
          (E)
              IPENTIFICATION METHOD:
          ( € )
          (D) OTHER INFORMATION:
    (x) PUBLICATION: INFORMATION:
          (A) APTHOAS:
          (E)
              TITLE:
              JOURNAL:
          (\mathbb{C}_{+})
          (D)
              VOLUME:
          (E)
              ISSUE:
          (F) FAGES:
          (G) DATE:
          (H) DECUMENT NUMBER:
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(K) RELEVANT RESIDUES:
    (xi)
          SEQUENCE DESCRIPTION: SEQ ID NO:31:
ATC AGC AGT TGT GGT TTC TAC TGG
                                      24
(2) INFORMATION FOR SEQ ID NO:32:
          SEQUENCE CHARACTERISTICS:
    (i)
          (A) LENGTH: 36 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: double
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: cDNA
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) ORIGINAL SOURCE:
          (A) ORGANISM:
          (E)
               STEAIN:
          (C)
              INDIVIDUAL ISOLATE:
          (D) DEVELOPMENTAL STAGE:
          (E) HARLOTYPE:
          (F) TISSUE TYPE:
          (G)
              TELL TYPE: Hybridoma producing human antibody GAH
          (H)
              CELL LINE:
              ORGANELLE:
          (I)
    (vii) IMMEDIATE SOTACE:
          (A) LIBRARY:
          (E) CLONE:
    (viii) POSITION IN JENOME:
          (A) CHROMOS ME/SEGMENT:
          (B) MAE POSITION:
          (C) UNITS:
    (ix) FEATURE:
          (A) NAME/FET:
              LCOTATION:
          ( F: )
               ILENTIFICATION METHOD:
          (\mathbb{C})
          (I) OTHER INFORMATION:
         PUBLICATION INFORMATION:
    (x)
          (A) AUTHORS:
              TITLE:
          (E)
          (\mathbb{C}_i)
              JOURNAL:
              VOLUME:
          (\Gamma \cap)
          (E)
              ISSUE:
          (F)
              PAGES:
               DATE:
          (G)
               DOCUMENT NUMBER:
          (H)
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ATT GGG TAC ATC TAT TAG AGT GGG AGC ACC TAC TAC 36

(2) INFORMATION FOR SEQ ID NO:33:

(I)

(i) SEQUENCE CHARACTERISTICS:

FILING DATE:

(J) FUBLICATION DATE:(E) RELEVANT RESIDUES:

(xi) SEQUENCE DESTRIPTION: SEQ ID NO:32:

- (A) LENGTH: 27 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

	(iii) (iv) (vi)	(D) TOPOLOGY: linear MOLECULE TYPE: cDNA HYPOTHETICAL: ANTI-SENSE: OPIGINAL SOURCE: (A) CEGANISM: (B) STHAIN: (C) INDIVIDUAL ISCLATE: (D) DEVELOEMENTAL STAGE: (E) HAPLOTYPE: (F) TISSUE TYPE: (G) CEML TYPE: Hybridoma producing human antibody GAH (H) CEML LINE: (I) OFGANELLE:
		IMMEDIATE SCURCE: (A) LIBRARY: (E) CLONE:
	(ix)	PGSITION IN GENOME: (A) CHECMISCHE/SEGMENT: (E) MAP FOSITION: (C) UNITS: FEATURE: (A) NAME/FEY: (B) LOCATION: (C) IDENTIFICATION METHOD: (D) OTHER INFORMATION: UBLICATION INFORMATION: (A) AUTHORS: (B) TITLE: (C) JOURNAL: (D) WOLUME:
	(xi)	(E) ISSUE: (F) EAGES: (G) DATE: (H) DODRMENT NUMBER: (I) FILING DATE: (J) SUBLICATION DATE: (K) RELEMANT RESIDUES: SEQUENCE DESCRIPTION: SEQ ID NO:33:
TCT	ACC CG	SA CTA 099 909 GOT GAO TAO 27
(2)	(i)	RMATION FOR SEQ ID NO:34: SEQUENCE CHARACTERISTICS: (A) LEMOTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEONESS: double (D) TOPOLOGY: linear
	(iii) (iv)	MOLECUME TYPE: GDMA HYPOTHEFICAL: ANTI-SEMSE: ORIGINAL SOURCE: (A) ORGANISM: (B) STEAIN: (C) INDIVIDUAL ISOLATE: (D) DEFELOPMENTAL STAGE: (E) HAPLITYPE:

(F) TISSUE TYPE:

		(G)	CELL TYPE: Hykridoma producing	n human	antibody	GAH
			CELL LINE:	9	1	
			OFGANELLE:			
	(vii)		IATE SOURCE:			
	, ,		LIBPAFY:			
			CLONE:			
	(wiii)		TION IN GENOME:			
	(^ + + + +)		CHECMOSOME/SEGMENT:			
			MAP POSITION:			
			UNITS:			
	1 \					
	(ix)					
			NAME/REY:			
			LOCATION:			
			IDENTIFICATION METHOD:			
			OTHER INFORMATION:			
	(X) E		MATION INFORMATION:			
			AUTHORA:			
		(E)	TITLE:			
			TEURIAN:			
			MOLUME:			
			ISSUE:			
			PAGES:			
			DATE:			
		(H)	DOCUMENT NUMBER:			
			FILING DATE:			
			PUBLICATION DATE:			
		/ * * *	RELEVACIT RESIDUES:			
	(xi)		MOS DESCRIPTION: SEQ ID NO:34	:		
		SEQUE	MCS DESCRIPTION: SEQ ID NO:34			
	TCC AC	SEQUE	NGE DESCRIPTION: SEQ ID NO:34	30		
	TCC AC	SEQUE	MCS DESCRIPTION: SEQ ID NO:34			
AAC	TCC AC	SEQUE GC CAG AG AAA	NOS DESCRIETION: SEQ ID NO:34 G AGT GTT TTA TAC AAC TOC A TAC TTA GCT	30		
	TCC AC AAT AA	SEQUE SC CAG AG AAA RMATIG	NOS DESCRIETION: SEQ ID NO:34 G AGT GTT TTA TAC AAC TCC A TAC TTA GCT NN FCR SEQ ID NO:35:	30		
AAC	TCC AC	SEQUE GC CAG AG AAA RMATIG SEQUE	ONCE DESCRIPTION: SEQ ID NO:34 G AGT OTT TTA TAC AAC TOC A TAC TTA GCT ON FOR SEQ ID NO:35: CMCE CHAPACTERISTICS:	30		
AAC	TCC AC AAT AA	SEQUE SC CAG AG AAA RMATIC SEQUE (A)	ONCE DESCRIPTION: SEQ ID NO:34 G AGT GTT TTA TAC AAC TCC A TAC TTA GCT ON FOR SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: OI base pairs	30		
AAC	TCC AC AAT AA	SEQUE GC CAC AG AAA RMATIC SEQUE (A) (E)	ENCE DESCRIPTION: SEQ ID NO:34 F AGT OFT TTA TAC AAC TCC A TAC TTA GCT ON FOR SEQ ID NO:35: CNCE CHAPACTERISTICS: LENGTH: Of base pairs TYPE: swelled acid	30		
AAC	TCC AC AAT AA	SEQUE GC CAC AG AAA RMATIC SEQUE (A) (E) (C)	ENCE DESCRIPTION: SEQ ID NO:34 F AGT OTT TTA TAC AAC TOC A TAC TTA GCT ON FOR SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: Of base pairs TYPE: Succleic acid STRANDEDNESS: double	30		
AAC	TCC AC AAT AA INFOF	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) (C)	ENGE DESCRIFTION: SEQ ID NO:34 FAST OFT TTA TAC AAC TOC A TAC TTA GCT ON FOR SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: Of base pairs TYIF: modleid acid STEARCEDNESS: double TOFOLOGY: linear	30		
AAC	TCC AC AAT AA INFOF	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) (C) MCLES	ENCE DESCRIFTION: SEQ ID NO:34 FAST OFT TTA TAC AAC TOC A TAC TTA GOT ON FOR SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: Of base pairs TYIF: Sucleic acid STEANIEDNESS: double TOFOLOWY: Cinear	30		
AAC	TCC AC AAT AA INFOF	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) MOLES HYPOT	ENGE DESCRIFTION: SEQ ID NO:34 F AGT GTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: Ol base pairs TYPE: Sucleic acid STRANCEONESS: double TOPOLOGY: Cinear COLE TYPE: GDNA CHETICAL:	30		
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) (D) MODES HYPOT ANTI-	ENGE DESCRIFTION: SEQ ID NO:34 F AGT GTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: Ol base pairs TYPE: coccleic acid STRANTEDNESS: double TOPOLOGY: Cinear CULE TYPE: cONA CHETICAL: SEDSE:	30		
AAC	TCC AC AAT AA INFOF	SEQUE SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) (C) MOLEG HYPOT ANTI- OFIGI	ENGE DESCRIFTION: SEQ ID NO:34 F AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: C1 base pairs TYPE: Societe acid STEARLEDNESS: double TOFOLOGY: Linear CULE TYPE: CDNA CHETICAL: CSEDSE: CMAL COURCE:	30		
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (C) (C) (C) MCLEG HYPOT ANTI- ORIGI (A)	ENGE DESCRIFTION: SEQ ID NO:34 F AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: C1 base pairs TYPE: Societe acid STEARLEDNESS: double TOFOLOGY: Linear CULE TYPE: CDNA CHETICAL: CSEDSE: CMAL COURCE: CMCANIUM:	30		
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE SEQUE RMATIC SEQUE (A) (B) (C) (C) MOLEC HYPOT ANTI- ORIGI (A) (E)	ENGE DESCRIFTION: SEQ ID NO:34 F AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: C1 base pairs TYPE: Societe acid STEANIEDNESS: double TOFOLOGY: Linear CMLE TYPE: CDNA CHETICAL: CSEDSE: CMAL COURCE: CMCGANIUM: STEANI:	30		
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (C) (C) (C) MCLES HYPOT ANTI- ORIGI (A) (E) (C)	ENGE DESCRIFTION: SEQ ID NO:34 F AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: C1 base pairs TYPE: Societe acid STEANIEDNESS: double TOFOLOGY: Linear CULE TYPE: CDNA CHETICAL: CSEDSE: CMAL COURCE: CREANIUM: STEAN: INDIVIDUAL ISOLATE:	30		
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) (C) MCLEG HYPOI ANTI- ORIGI (A) (B) (C) (C)	ENGE DESCRIFTION: SEQ ID NO:34 G AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LEMGTH: Cl base pairs TYPE: Sucleic acid STRANIEMNESS: double TOFOLOGY: Cinear CMLE TYPE: CDNA CHETICAL: SEMSE: CMAL COMBCE: OBGANISM: INDIVIDUAL ISOLATE: DEMELOPMENTAL STAGE:	30		
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) (C) MCLEC HYPOI ANTI- ORIGI (A) (B) (C) (C) (C)	ENGE DESCRIFTION: SEQ ID NO:34 G AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LEMGTH: Cl base pairs TYPE: Sucleic acid STRANIEMNESS: double TOFOLISY: Linear CMLE TYPE: CDNA CHETICAL: SEMSE: CNAL SCHECE: OBGANISM: INDIVIDUAL ISOLATE: DEWELOPMENTAL STAGE: HAELOTTPE:	30		
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE SEQUE CAG AAA RMATIC SEQUE (A) (C) (C) MOLEO HYPOT ANTI- ORIGI (A) (E) (C) (D) (E)	ENGE DESCRIFTION: SEQ ID NO:34 F AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: C1 base pairs TYPE: Societe acid STEANIEDNESS: double TOFOLOGY: Linear CMLE TYPE: CDNA CHETICAL: CSEDSE: CMAL COURCE: ORGANIUM: STEAIN: INDIVIDUAL ISOLATE: DEMELOFMENTAL STAGE: HARLOTYPE: TISSUE TYPE:	30 51		
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) (C) MCLEG HYPOI ANTI- ORIGI (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	ENGE DESCRIFTION: SEQ ID NO:34 F AST OTT TTA TAC AAC TOC A TAC TTA GOT ON FOR SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: OI hase pairs TYPE: Sucleic acid STEANIEMNESS: double TOFOLOGY: linear CMLE TYPE: CDNA CHETICAL: SEDSE: ORGANISM: INDIVIDUAL ISOLATE: DEWELOPMENTAL STAGE: HAELOTYPE: TISSUE TYPE: CELL TYPE: Hybridoma producing	30 51	antibody	GАН
AAC	TCC AC AAT AF INFOF (i) (ii) (iii) (iv)	SEQUE SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) (C) MCLEC HYPOI ANTI- ORIGI (E) (C) (D) (E) (F) (G) (H)	ENGE DESCRIFTION: SEQ ID NO:34 F AST OTT TTA TAC AAC TOC A TAC TTA GOT ON FOR SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: OI base pairs TYPE: Societe acid STEANIEDNESS: double TOFOLOGY: linear OULE TYPE: oDNA CHETICAL: SEDSE: ORGANISM: INDIVIDUAL ISOLATE: DEWELOPMENTAL STAGE: HARLOTYPE: TISSUE TYPE: CELL TYPE: Hybridoma producing CELL LINE:	30 51	antibody	GАН
AAC	TCC ACAT AF	SEQUE SEQUE CAG CAG CAA CAA CAA CC) CC) MOLEG HYPOI ANTI- ORIGI (C) (C) (C) (C) (C) (C) (C) (C	ENGE DESCRIFTION: SEQ ID NO:34 G AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: Cl base pairs TYFF: Sucleic acid STRANIEDNESS: double TOFOLOGY: Cinear CMLE TYPE: CDNA CHETICAL: SENSE: CMAL GOVECE: OBGANISM: STRAIN: INDIVIDUAL ISOLATE: DEVELOPMENTAL STAGE: HAELOTYFE: TISSUE TYPE: CELL TYPE: Hybridoma producing CELL LINE:	30 51	antibody	GАН
AAC	TCC ACAT AF	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (C) (C) MOLEG HYPOT ANTI- ORIGI (C) (D) (E) (F) (G) (H) (I) INMEL	ENCE DESCRIPTION: SEQ ID NO:34 FAST OFT TTA TAC AAC TOC A TAC TTA GCT ON FOR SEQ ID NO:35: CMCE CHARACTERISTICS: LENGTE: Of base pairs TYPE: Societe acid STRANDEDNESS: double TOFOLOGY: Linear COLE TYPE: CONA CHETICAL: SEDSE: CMAL SOCIECE: ORGANISM: STRAND: INDIVIDUAL ISOLATE: LEMELOFMENTAL STAGE: HARLOTTEE: TISSUE TYPE: CELL TYPE: Hybridoma producing CELL LINE: ORGANISME: ORGANISME: CELL TYPE: Hybridoma producing CELL CORE	30 51	antibody	GАН
AAC	TCC ACAT AF	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (C) (C) MOLEG HYPOT ANTI- ORIGI (C) (D) (E) (F) (G) (H) (I) INMEL	ENGE DESCRIFTION: SEQ ID NO:34 G AST OTT TTA TAC AAC TCC A TAC TTA GCT ON FCE SEQ ID NO:35: CMCE CHAPACTERISTICS: LENGTH: Cl base pairs TYFF: Sucleic acid STRANIEDNESS: double TOFOLOGY: Cinear CMLE TYPE: CDNA CHETICAL: SENSE: CMAL GOVECE: OBGANISM: STRAIN: INDIVIDUAL ISOLATE: DEVELOPMENTAL STAGE: HAELOTYFE: TISSUE TYPE: CELL TYPE: Hybridoma producing CELL LINE:	30 51	antibody	GАН
AAC	TCC ACAT AF INFOR (ii) (iii) (iii) (iv) (vi)	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) MCLEC HYPOT ANTI- ORIGI (B) (C) (D) (E) (F) (G) (I) INMEI (A) (5)	ENCE DESCRIPTION: SEQ ID NO:34 FAST OFT TTA TAC AAC TOC A TAC TTA GCT ON FOR SEQ ID NO:35: CMCE CHARACTERISTICS: LENGTH: Of base pairs TYPE: Societo acid STRANCEDNESS: double TOFOLOGY: Linear CMLE TYPE: GDNA CHETICAL: SENSE: CMAL GOVECE: GEGANISM: STRAIN: INDIVIDUAL ISOLATE: DEVELOPMENTAL STAGE: HARLOTYPE: CELL TYPE: Hybridoma producing CELL LINE: GEGANELLE: DEGANELLE: CHARE: SOURCE: LIBERARY: CLONE:	30 51	antibody	GАН
AAC	TCC ACAT AF INFOR (ii) (iii) (iii) (iv) (vi)	SEQUE GC CAG AG AAA RMATIC SEQUE (A) (B) (C) MCLEC HYPOT ANTI- ORIGI (B) (C) (D) (E) (F) (G) (I) INMEI (A) (5)	ENCE DESCRIPTION: SEQ ID NO:34 FAST OFT TTA TAC AAC TOC A TAC TTA GOT ON FOR SEQ ID NO:35: CMCE CHARACTERISTICS: LENGTH: Of base pairs TYPE: Societo acid STRANCEDNESS: double TOFOLOW: Linear OULE TYPE: CONA CHETICAL: SEDSE: CMAL SOURCE: ORGANISM: STRAIN: INDIVIDUAL ISOLATE: DEWELOPMENTAL STAGE: HARLOTYPE: CELL TYPE: Hybridoma producing CELL TYPE: Hybridoma producing CELL CORCE: CAGANEDLE: CA	30 51	antibody	GАН

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(B) MAP POSITION:
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    (ix)
          (A) NAME/KEY:
          (B) LCCATION:
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          (B)
              TITLE:
              JOURNAL:
          (C)
              VOLUME:
          ( D)
              ISSUE:
          (E)
              FAGES:
          (F)
               CATE:
          (G)
              DOCUMENT NUMBER:
          (E)
              FILING DATE:
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          (\mathcal{Z})
              FUBLICATION DATE:
          (K) RELEMANT RESIDUES:
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TGG GCA TCT ACC 198 BAA TCC
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   INFORMATION FOR SEQ ID NO:36:
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          (A) LENGTH: 27 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDMESS: double
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: dDNA
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) ORIGINAL SOURCE:
          (A) CEGANISM:
              FTEAIN:
          (E)
              INDIVIDUAL ISOLATE:
          (C)
              PETERBEMENTAL STAGE:
          (\mathbb{D}_{1})
              HAPLOTYFE:
          (E)
          (F)
              TISSUE TYPE:
              CELL TYPE: Hybridoma producing human antibody GAH
          (G)
          (H)
              WELL LINE:
              CESANELLE:
          (I)
    (vii) IMMEDIATE SOURCE:
          (A) LIBEARY:
          (B) CIONE:
    (viii) POSITION IN GENOME:
          (A) CHECAGGOME/SEGMENT:
          (E) MAR FOSITION:
          (C) UNITE:
    (ix) FEATURE:
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          (E) LICATION:
              IDENTIFICATION METHOD:
          (\cdot; C)
          (D) OTHER INFORMATION:
        PUBLICATION INFORMATION:
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(A) AUTHORS: (E) TITLE:

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(E)

JOURNAL:

VCLUME:

ISSUE:

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PAGES:
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          (G)
               DATE:
          (H)
               DOCUMENT NUMBER:
               FILING DATE:
          (I)
               PUBLICATION DATE:
          (J)
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          (K)
        SEQUENCE DESCRIPTION: SEQ ID NO:36:
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CAG CAG TAT TAT AGT ACT CCG TGG ACG
                                         27
(2) INFORMATION FOR SEQ ID NO:37:
    (i)
          SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 30 base pairs
          (B)
               TYPE: nucleic acid
              STFAMDEDNESS: double
          (C)
          (D) TOPCLOGY: linear
    (ii) MOLECULE TYPE: cDNA
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) OFIGINAL COURCE:
          (A)
              OFGANISM:
          ( E)
              STEAIN:
          (C)
              INDIVIDUAL ISOLATE:
          (E_{\cdot})
              DEVELORMENTAL STAGE:
          (E)
              HABLOTYPE:
          (F)
              TISSUE TYPE:
              CELL TYPE: Hypridema producing human antibody 1-3-1
          (G)
              CELL LINE:
          (H)
              CESAMELLE:
          (I)
    (vii) IMMEDIALE SOURCE:
          (A) LIBEARY:
          (E)
               CLINE:
    (viii) POSITION IN GENOME:
          (A)
              THEAT SOME/SEGMENT:
          (E)
              MAR FOSITION:
          (C)
              UNITE:
          FEATURE:
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              LOCATION:
          ( F.)
              ILENTIFICATION METHOD:
          ( □ )
              OTHER INFORMATION:
          (\Gamma:)
         PUBLICATION: INFORMATION:
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          (E)
              TITLE:
          (€)
              JOURNAL:
              VILUME:
          (\mathbb{D}^i)
              ISSUE:
          (E)
              FAGES:
          ( F.)
              DATE:
          (G)
              DOCUMENT NUMBER:
          (H)
              FILING DATE:
          (I)
          (J)
               FUBLICATION DATE:
          (F.)
              RELEVANT RESIDUES:
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:
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ATC AGC AGT AGT AGT TAC TAC TGG GGC TGG INFORMATION FOR SEQ ID NO:33: SEQUENCE CHAPACTERISTICS: (i)(A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STPANDEDNESS: double (D) TOFOLOGY: linear (ii) MOLECULE TYPE: dDNA (iii) HYPOTHETICAL: (iv) ANTI-SENSE: (vi) ORIGINAL SOURCE: (A) ORGANISM: (B) STEAIN: INDIVIDUAL ISOLATE: (10) DEVELOPMENTAL STAGE: (D) (E) HARLOTYPE: TISSUE TYPE: (F) CELL TYPE: Hybridoma producing human antibody 1-3-1 (G)(H)CELL LINE: (I) OFGAUELLE: (vii) IMMEDIATE SOURCE: BIËFARY: (A)CLONE: (E) (viii) POSITION IN GENOME: (A) CHRONOGOME/SEGMENT: (B) MAR FOSITION: (C) UNITS: (ix) FEATURE: (A) NAME THEY: LOCATION: (E) (C) IDENTIFICATION METHOD: (D) OTHER INFORMATION: PUBLICATION INFORMATION: (A) AUTHORS: TITLE: (E) JONELALI: MOLUME: (C)([1] (E) 18308: (F) FAGES: (G)EATE: (H) LOCUMENT NUMBER: (I)FILING DATE: FUELICATION DATE: (T,) (E) RELEGANT RESIDUES: (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38: ATT GGG AGT ATC TAT TAT AGT GGG AGC TAC TAC AAC CCG 42 INFORMATION FOR SEQ ID NO:39: SEQUENCE CHARACTERISTICS: (i)

(A) LEMOTH: 36 base pairs(B) TYPE: nucleic acid(C) STEANDEDNESS: double(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETITAL:
(iv) ANTI-SENSE:

```
(vi) ORIGINAL SOURCE:
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          (B) STPAIN:
          (C)
              INDIVIDUAL ISOLATE:
              DEVELOPMENTAL STAGE:
          ( L, )
          (E)
              HAPLOTYFE:
          (F)
              TISSUE TYPE:
          (G) CELL THE: Hykridoma producing human antibody 1-3-1
          (H)
              CELL LINE:
          (I) OFGANELLE:
    (vii) IMMEDIATE SOURCE:
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              LIBEARY:
          (B) CLONE:
    (viii) POSITION IN GENOME:
          (A) CHROMOGOME/SEGMENT:
          (E)
              MAE POSITION:
          ( C )
              UNITS:
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          FEATURE:
          (A) NAMEL KEY:
          (E)
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          (C)
              IPENTIFICATION METHOD:
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              OTHER INFORMATION:
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          (A) AUTHORF:
          (E) TITLE:
          (c) JOURNALL:
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              VOLUME:
          (E) ISSUE:
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              EAGES:
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              DATE:
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          (J) FUBLICATION DATE:
              RELEVANT RESIDUES:
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          SEQUENCE DESCRIPTION: SEQ ID NO:39:
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GGG AGC TAC GGG GGC TAC TAC TAC GGT ATG GAC GTC
                                                      36
    INFORMATION FOR PEQ ID NO:40:
          SEQUENCE CHARACTERISTICS:
    (i)
          (A) LENGTH: 27 base pairs
          (B) TYPE: nucleic acid
              STEANDEDNESS: double
          (D) TOPOLDGM: linear
    (ii) MOLECULE TYPE: dDNA
    (iii) HYPOTHETICAL:
    (iv)
         ANTI-SENSE:
    (vi)
          ORIGINAL ADMADE:
               DEGANISM:
          (\mathcal{F}_{\Sigma})
          (B)
              STFAIN:
              INDIVIDUAL ISOLATE:
          (\mathbb{C})
              DEVELOPMENTAL STAGE:
          (D)
          (E)
              HAPLITYPE:
               TISSUE TYPE:
          (F)
          (G)
               SELL TYPE: Hybridoma producing human antibody 1-3-1
          (H)
               CELL LINE:
```

(I)

ORGANELLE:

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(vii) IMMEDIATE SCURCE:
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          (B) CLCNE:
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          (A) CHROMOSOME/SEGMENT:
          (B) MAR POSITION:
          (C)
              UNITS:
         FEATURE:
    (ix)
          (A) NAME/KET:
          (B)
              LOCATION:
              IDENTIFICATION METHOD:
          (∵)
          (D) OTHER INFORMATION:
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              TITLE:
          (E)
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              JOURNAL:
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          (\Box)
          (\Xi)
              ISSUE:
          (F)
              FAGES:
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              DOGUMENT NUMBER:
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GAT GCA TTG CCA MAG CAN TAT GOT TAT
                                         27
   INFORMATION FOR SEQ ID No:41:
          SEQUENCE CHARACTERISTICS:
    (i)
          (A) LENGTH: 12 base pairs
          (B) TYEE: : ucleic acid
          (C) STEACHEUNESS: double
          (D) TOFOLIBY: linear
    (ii) MOLECULE TYPE: cDNA
    (iii) HYPOTHETITAL:
    (iv) ANTI-SENSE:
    (vi) OFIGINAL SEURCE:
          (A) CREWILSM:
          (E)
              STEAIN:
          (€)
              INDIVIDUAL ISOLATE:
              DEMELOPMENTAL STAGE:
          ( E: )
              HAPLOTYPE:
          (E)
          (F)
              TISSUE TYPE:
              CELL TYPE: Hybridoma producing human antibody 1-3-1
          (H)
              CELL LINE:
          (I)
              DROAMELLE:
    (vii) IMMEDIATE SOURCE:
          (A)
              LIBEARY:
               TISHE:
          (E)
    (viii) POSITION IN GENEME:
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          (E)
              UNIT:
          (C)
    (ix) FEATURE:
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(A) NAME/KEY:

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              LOCATION:
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          (D)
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          (B)
              TITLE:
          (∵)
              JOUFNAL:
          (1)
              VOLUME:
          (E)
              ISSUE:
          (F)
              FAGES:
          (G)
              DATE:
              DOCUMENT NUMBER:
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          (I)
              FILING DATE:
              PUBLICATION DATE:
          ( J.)
              RELEMANT RESIDUES:
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    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:
AAA GAC AGT GAG
                 1.2.
    INFORMATION FOR SEQ ID NO:42:
(2)
    (i)
          SEQUENCE CHARACTERISTICS:
          (A) LEMOTH: 33 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDENNESS: double
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE:
                         ⊂¢DNA
    (iii) HYPOTHETICAL:
    (iv) ANTI-SENSE:
    (vi) ORIGINAL SOURCE:
          (A) OF GANISM:
          (E.)
              STEAIN:
          (C) INDIVIDUAL ISOLATE:
          (D) DEMELOPMENTAL STAGE:
          (E) HAFINITYFE:
          (F) TISSUE TYPE:
              CELL TYPE: Hybridoma producing human antibody 1-3-1
          (15 i
          (H)
              CELL LINE:
          ( I :
              CEGAMELLE:
    (vii) IMMEDIATE SOURCE:
          (A) LIBFARY:
              CLONE:
          (E)
    (viii) POSITION IN GENOME:
          (A) CHROMOSOME/SEGMENT:
          (E: MAP FOSITION:
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          (E)
          (C)
               JUURNAL:
          (D) VOLUME:
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ISSUE:

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- (I) FILING DATE:
- (J) FUBLICATION DATE:
- (K) RELEVANT RESIDUES:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

CAA TCA GCA GAC AGC AGT GGT ACT TAT GAG GTA 33